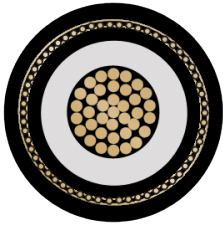


## N2XS2Y 6/10 KV POWER CABLE



### APPLICATION

Medium voltage power cables for fixed installations. Cables can be fixed on cable trays, within conduits or fixed to walls. This cable is not suitable for direct burial.

### CABLE STANDARDS

BS EN / IEC 60332-1-2  
VDE 0276-620  
HD 620 S1  
EN 60228

### CONSTRUCTION

**Conductor:** Stranded Copper Conductor to BS EN 60228  
**Inner Screen:** Semi Conductive Compound  
**Insulation:** Cross Linked Polyethylene (XLPE)  
**Core Screen:** Semi Conductive Compound  
**Outer Screen:** Copper Wire Screen & Counter Helix Copper Tape  
**Sheath:** Polyethelene (PE)  
**Sheath Colour:** ■ Black

### CHARACTERISTICS

**Voltage Rating:** 6/10 (12)kV  
**Temperature Limits:** 0°C to +70°C  
**Minimum Bending Radius:** As per cable manufacturer datasheet

Should not be installed at temperatures below 0°C

## N2XS2Y 6/10 KV POWER CABLE - CABLE DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM <sup>2</sup> )	STRANDING (MM)	CWS (MM)	OVERALL DIAMETER (MM)	WEIGHT (KG/KM)
11KVN2XS2Y1X35	35	7/2.52	RM/16	32	1000
11KVN2XS2Y1X50	50	19/1.78	RM/16	33	1150
11KVN2XS2Y1X70	70	19/2.14	RM/16	35	1350
11KVN2XS2Y1X95	95	19/2.52	RM/16	36	1600
11KVN2XS2Y1X120	120	37/2.03	RM/16	38	1850
11KVN2XS2Y1X150	150	37/2.03	RM/25	39	2250
11KVN2XS2Y1X185	185	37/2.25	RM/25	41	2600
11KVN2XS2Y1X240	240	37/2.52	RM/25	44	3150
11KVN2XS2Y1X300	300	61/2.25	RM/25	46	3800
11KVN2XS2Y1X400	400	61/2.25	RM/35	49	4750
11KVN2XS2Y1X500	500	61/3.20	RM/35	52	5800

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

## N2XS2Y 6/10 KV POWER CABLE - CARRYING CAPACITY (AMPERES)

CONDUCTOR CROSS-SECTIONAL AREA	REFERENCE METHOD A (ENCLOSED IN CONDUIT THERMALLY INSULATING WALL ETC)		REFERENCE METHOD B (ENCLOSED IN CONDUIT ON A WALL OR IN TRUNKING ETC)		REFERENCE METHOD C (CLIPPED DIRECT)		REFERENCE METHOD F (IN FREE AIR ON A PERFORATED CABLE TRAY HORIZONTAL / VERTICAL)				
	2 CABLES, SINGLE - PHASE AC OR DC	3 OR 4 CABLES, 3 PHASE AC	2 CABLES, SINGLE - PHASE AC OR DC	3 OR 4 CABLES, THREE PHASE AC OR DC	2 CABLES, SINGLE - PHASE AC OR DC FLAT AND TOUCHING	3 OR 4 CABLES, THREE - PHASE AC FLAT AND TOUCHING OR TREFOIL	TOUCHING			SPACED BY ONE DIAMETER	
							2 CABLES, SINGLE - PHASE AC OR DC FLAT	3 CABLES, THREE - PHASE AC FLAT	3 CABLES, THREE - PHASE AC TREFOIL	2 CABLES, SINGLE PHASE AC OR DC OR 3 CABLES THREE - PHASE AC FLAT	HORIZONTAL
1	2	3	4	5	6	7	8	9	10	11	12
(MM <sup>2</sup> )	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
25	80	73	101	89	114	104	131	114	110	146	130
35	99	89	125	110	141	129	162	143	137	181	162
50	119	108	151	134	182	167	196	174	167	219	197
70	151	136	192	171	234	214	251	225	216	281	254
95	182	164	232	207	284	261	304	275	264	341	311
120	278	249	354	312	413	379	437	400	383	500	454
150	318	285	393	342	476	436	504	464	444	577	527
185	362	324	449	384	545	500	575	533	510	661	605
240	424	380	528	450	644	590	679	634	607	781	719
300	486	435	603	514	743	681	783	736	703	902	833
400	-	-	683	584	868	793	940	868	823	1,085	1,008
500	-	-	783	666	990	904	1,083	998	946	1,253	1,169
630	-	-	900	764	1,130	1,033	1,254	1,151	1,088	1,454	1,362
800	-	-	-	-	1,288	1,179	1,358	1,275	1,214	1,581	1,485
1,000	-	-	-	-	1,443	1,323	1,520	1,436	1,349	1,775	1,671

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## N2XS2Y 6/10 KV POWER CABLE - VOLTAGE DROP

CROSS SECTIONAL AREA	2 CABLES DC MVA/M	2 CABLES SINGLE-PHASE AC MVA/M						3 OR 4 CABLES THREE-PHASE AC MVA/M								
		MM <sup>2</sup>						REFERENCE METHODS C, F AND G (CLIPPED DIRECT, ON TRAY OR IN FREE AIR)								
		CABLES TOUCHING			CABLES SPACED*			CABLES TOUCHING, TREFOIL			CABLES TOUCHING, FLAT			CABLES SPACED*, FLAT		
1	2	4			5			7			8			9		
		R	X	Z	R	X	Z	R	X	Z	R	X	Z	R	X	Z
35	1.250	1.250	0.200	1.250	1.250	0.280	1.300	1.100	0.170	1.100	1.100	0.24	1.100	1.100	0.320	1.150
50	0.930	0.930	0.190	0.950	0.930	0.280	0.970	0.800	0.170	0.820	0.800	0.24	0.840	0.800	0.320	0.860
70	0.630	0.630	0.185	0.660	0.630	0.270	0.690	0.550	0.160	0.57	0.550	0.24	0.600	0.550	0.31	0.630
95	0.460	0.47	0.180	0.500	0.47	0.270	0.540	0.41	0.160	0.430	0.41	0.230	0.47	0.400	0.31	0.51
120	0.360	0.370	0.180	0.410	0.370	0.260	0.450	0.320	0.150	0.360	0.320	0.230	0.400	0.320	0.300	0.440
150	0.32	0.32	0.165	0.36	0.32	0.25	0.41	0.28	0.14	0.31	0.28	0.165	0.32	0.28	0.24	0.37
185	0.25	0.26	0.165	0.3	0.25	0.25	0.36	0.22	0.14	0.26	0.22	0.165	0.28	0.22	0.24	0.33
240	0.19	0.2	0.16	0.25	0.195	0.25	0.31	0.17	0.14	0.22	0.17	0.165	0.24	0.17	0.24	0.29
300	0.155	0.16	0.16	0.22	0.155	0.25	0.29	0.14	0.14	0.195	0.135	0.16	0.21	0.135	0.24	0.27
500	0.093	0.125	0.170	210	0.165	0.24	0.29	0.105	0.145	0.18	0.145	0.2	0.25	0.19	0.24	0.31
630	0.073	0.105	0.165	0.195	0.15	0.23	0.27	0.092	0.145	0.17	0.135	0.195	0.24	0.175	0.23	0.29

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

CONDUCTOR OPERATING TEMPERATURE: 90°C

R = RESISTIVE COMPONENT  
X = REACTIVE COMPONENT  
Z = IMPEDANCE VALUE

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